

6GU5

Beam Hexode

ELECTRICAL

Heater Characteristics and Ratings

Voltage (AC or DC)	6.3 ± 0.6	V
Current at 6.3 V	0.220	A
Maximum heater-cathode voltage		
Heater negative with respect to cathode		
Peak	200	V
Heater positive with respect to cathode		
Peak	200	V
DC component	100	V

Direct Interelectrode Capacitances (Approx.)

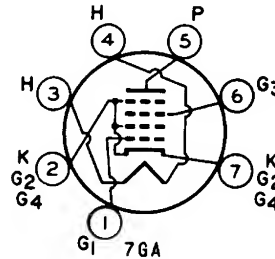
Without external shield		
Grid No.1 to plate	0.018	pF
Input: G1 to (K + G4 + G2, G3, H)	7.0	pF
Output: P to (K + G4 + G2, G3, H)	3.2	pF

MECHANICAL

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	2-1/8 in
Maximum Seated Length	1-7/8 in
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2 ± 3/32 in
Diameter	0.650 to 0.750 in
Dimensional Outline (JEDEC No.5-2)	See General Section
Envelope	JEDEC T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No.E7-1)

TERMINAL DIAGRAM (Bottom View)

- Pin 1 - Grid No.1
- Pin 2 - Cathode, Grid No.2, Grid No.4
- Pin 3 - Heater
- Pin 4 - Heater
- Pin 5 - Plate
- Pin 6 - Grid No.3
- Pin 7 - Same as Pin 2



CHARACTERISTICS

Plate Voltage.	135	275	V
Grid-No.3 Voltage.	135	135	V
Grid-No.1 Voltage.	-0.4	-0.4	V
Plate Resistance (Approx.)	0.67	0.165	MΩ
Transconductance	15000	15500	μmhos
Plate Current.	9	10	mA
Grid-No.3 Current.	0.25	0.17	mA
Grid-No.1 Voltage (Approx.)	-6.2	-6.5	V
For transconductance = 100 μmhos			
Noise Figure	5.9	5.7	dB
At 200 Mc/s			



RADIO CORPORATION OF AMERICA

DATA

6GU5

DESIGN-MAXIMUM RATINGS

Plate Voltage.	300	V
Grid-No.3 (Screen-Grid) Voltage.	150	V
Grid-No.1 (Control-Grid) Voltage		
Negative-bias value.	50	V
Positive-bias value.	0	V
Cathode Current.	20	mA
Grid-No.3 Input.	0.15	W
Plate Dissipation.	3	W

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance		
For fixed-bias operation	0.5	MΩ

DATA

RADIO CORPORATION OF AMERICA
Electronic Components and Devices

Harrison, N. J.

